

## 周运鸿 Y.Zhou

工学博士；

教授；加拿大滑铁卢大学兼职博士生导师

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### 主要研究方向

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1. 汽车车身激光焊接
2. 医疗器件和置入装置微连接
3. 微电子封装丝球键合
4. 纳米连接

### 社会兼职

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200- Reviewer for Canadian Metallurgical Quarterly, Scripta Materialia, Materials Science and Engineering, Materials Letters, IEEE Transaction on Advanced Packaging, Journal of Laser Applications, IEEE/ASME Transactions on Mechatronics, etc.

2006- Member of Canadian Council of the International Institute of Welding (CCIIW)

2004- Member of the Education Committee, Canadian Welding Association (CWA)

2004- Member of the Canadian Advisory Committee (CAC)/ISO/TC44/SC6

### 主要学术成果

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- Y. Zhou (editor), Microjoining and Nanojoining, CRC Press/Woodhead Publishing, Cambridge, UK, 2008 (26 chapters and 810 pages)
- S.K. Panda, V.H. Baltazar H., M.L. Kuntz, Y. Zhou, Formability Analysis of Diode-Laser-Welded Tailored Blanks of Advanced High-Strength Steel Sheets, Metall. Mater. Trans. A, 40A, 2009, 1955-67
- Shah, H. Gaul, M. Schneider-Ramelow, H. Reichl, M. Mayer, Y. Zhou, Ultrasonic Friction Power during Al Wire Wedge-Wedge Bonding, J. Appl. Phys., 106(1), 2009, 013503-1 to -8.
- S. Kore, J. Imbert\*, M.J. Worswick, Y. Zhou, Electromagnetic Impact Welding of Mg to Al Sheets, Sci. Technol. Weld. Join., 14(6), 2009, 356-61, 549-53
- Hu, J. Sanderson, Y. Zhou and W. W. Duley, Formation of diamond-like carbon by fs laser irradiation of organic liquids, Diamond Relat. Mater., 18, 2009, 999-1001
- Lum, H. Huang, B.H. Chang, M. Mayer, D. Du, Y. Zhou, Effects of Superimposed Ultrasound on Deformation of Gold, J. Appl. Phys., 105(2), 2009, 024905-1 to -5
- M.I. Khan, J.M. Kim, M.L. Kuntz\*\*, Y. Zhou, Bonding Mechanisms in Resistance Microwelding of 316 Low-Carbon Vacuum Melted Stainless Steel Wires, Metall. Mater. Trans. A, 40A, 2009, 910-19
- Shah, M. Mayer, Y. Zhou, S.J. Hong, J.T. Moon, Low Stress Thermosonic Copper Ball Bonding, IEEE Trans. Electron. Packag. Manufact., 32(3), 2009, 176-84
- L. Liu, S.Q. Zhou\*\*, Y.H. Tian, J.C. Feng, J.P. Jung, Y. Zhou, 2009, Effects of Surface Conditions on Resistance Spot Welding of Mg Alloy AZ31, Sci. Technol. Weld. Join., 14(4), 2009, 356-61
- W. Wu, Y. Zhou, A. Hu\*\*, X. Li\*\*, M. Yavuz, J.Q. Wei, Q. Shu, K.L. Wang, Vacuum brazing of carbon nanotube bundles, Mater. Lett., 62 (30), 2008, 4486-88
- Hu, J. Sanderson, A.A. Zaidi, C. Wang, T. Zhang, Y. Zhou, W.W. Duley, Direct Synthesis of Polyene Molecules in Acetone by Dissociation using Femtosecond Laser Irradiation, Carbon, (46)13, 2008, 1823-26
- J. Zhang, D.C. Weckman, Y. Zhou, Effects of temporal pulse shaping on cracking susceptibility of 6061-T6 aluminum Nd:YAG laser welds, Welding J., 87(1), January 2008, 18-s to 30-s